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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/940,885	08/29/2001	Masahiro Kawasaki	500.45062X00	5638	
20457	7590 03/13/2006		EXAMINER		
ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET SUITE 1800			ERDEM, FAZLI		
			ART UNIT	PAPER NUMBER	
ARLINGTO	N, VA 22209-3873		2826		

DATE MAILED: 03/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

,		Application No.	Applicant(s)			
Office Action Summary		09/940,885	KAWASAKI ET AL.			
		Examiner	Art Unit			
		Fazli Erdem	2826			
The MAILING DATE of this co Period for Reply	mmunication app	ears on the cover sheet with t	ne correspondence address			
A SHORTENED STATUTORY PER WHICHEVER IS LONGER, FROM  - Extensions of time may be available under the p after SIX (6) MONTHS from the mailing date of t  - If NO period for reply is specified above, the ma:  - Failure to reply within the set or extended period Any reply received by the Office later than three earned patent term adjustment. See 37 CFR 1.	THE MAILING DA rovisions of 37 CFR 1.13 his communication. ximum statutory period w for reply will, by statute, months after the mailing	TE OF THIS COMMUNICAT 6(a). In no event, however, may a reply lill apply and will expire SIX (6) MONTHS cause the application to become ABAND	TION.  De timely filed  from the mailing date of this communication.  ONED (35 U.S.C. § 133).			
Status			•			
1) Responsive to communication	n(s) filed on <u>23 De</u>	ecember 2005.				
2a) ☐ This action is FINAL.	2b)⊠ This	action is non-final.				
3) Since this application is in cor	nce this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the	practice under E	x parte Quayle, 1935 C.D. 11	, 453 O.G. 213.			
Disposition of Claims						
4) ☐ Claim(s) 2,3,5,9 and 16-25 is/ 4a) Of the above claim(s)  5) ☐ Claim(s) 2,3,5,9,16,17 and 19  6) ☐ Claim(s) 18 is/are rejected.  7) ☐ Claim(s) is/are objecte  8) ☐ Claim(s) are subject to	is/are withdraw - <u>-25</u> is/are allowed	n from consideration.				
Application Papers						
9)☐ The specification is objected to	by the Examine					
10) The drawing(s) filed on	is/are: a) ☐ acce	epted or b) objected to by t	he Examiner.			
Applicant may not request that a	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) in	cluding the correcti	on is required if the drawing(s) is	s objected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is obje	cted to by the Ex	aminer. Note the attached Of	fice Action or form PTO-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a  a) All b) Some * c) Non  1. Certified copies of the p  2. Certified copies of the p  3. Copies of the certified of application from the Interest * See the attached detailed Office	e of: priority documents priority documents copies of the prior pernational Bureau	have been received. have been received in Appli ity documents have been rec (PCT Rule 17.2(a)).	cation No eived in this National Stage			
Attachment(s)						
1) Notice of References Cited (PTO-892)		4) Interview Summ				
<ol> <li>Notice of Draftsperson's Patent Drawing Reg</li> <li>Information Disclosure Statement(s) (PTO-Paper No(s)/Mail Date</li> </ol>		Paper No(s)/Ma 5)  Notice of Inform 6)  Other:	il Date nal Patent Application (PTO-152)			

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#### **DETAILED ACTION**

## Allowable Subject Matter

1. Claims 2, 3, 5, 9 and 16, 17, and 19-25 allowed.

### Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 18 rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka et al. (6,674,093) in view of Orita et al. (6,344,375).

Regarding Claim 18, Tanaka et al. disclose an active matrix substrate and manufacture therefor where in Fig. 6 it is discloses an active matrix type display device using a thin film transistor as a switching element in the displaying portion or driving portion where the thin film transistor comprises an insulating substrate 101 on which a gate electrode 102, a gate insulating film 103, a semiconductor layer 104, a drain electrode and source electrode 106 and a passivation film 107 are successively laminated. Tanaka et al. fail to disclose the required void dimensions for the amorphous silicon semiconductor layer. However, Orita et al. disclose a substrate containing compound semiconductor method for manufacturing the same and semiconductor device using the same where in Claim 7, the required void dimension for the amorphous silicon semiconductor layer.

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It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required void dimension for amorphous silicon semiconductor layer in Tanaka et al. as taught by Orita et al. in order to have a semiconductor device with increased reliability.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FE

March 5, 2006

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